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(54) NOVEL POLYMER AND ITS RESIN COMPOSITION

(57)Abstract:

PURPOSE: To provide a poly-D-lactide having a specific molecular weight and improved physical properties, and useful as a decomposable and absorbable material and an agricultural culture film, etc.

CONSTITUTION: D-Lactic acid is synthesized by fermentation, and is esterified to obtain a D-oligomer. The D-lactic acid oligomer is thermally decomposed to obtain D-lactide, which is subjected to the ring-opening polymerization at about 130W220° C in the presence of a catalyst (e.g. tin octoate, lauryl alcohol, etc.) to obtain a poly-D-lactide having a molecular weight of 2,000W600,000. The objective composition is produced by compounding 1W99pts.wt. of a poly-L-lactide having a molecular weight of 2,000W600,000 with 99W1pts.wt. of a poly-D-lactide having a molecular weight of 2,000W600,000.

USE: Absorbable suture, bone plate, artificial tendon, artificial ligament, artificial blood vessel, etc.